130

<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"> <xsd:complexType name="personType" mixed="false"> -<xsd:element name="person" type="personType"/> <!-- The root element defines a person.

<xsd:element name="address" type="xsd:string" minOccurs="1" maxOccurs="1" />. <xsd:element name="name" type="xsd:string" minOccurs="1" maxOccurs="1" />~ 150 <xsd:attribute name="height" type="xsd:integer" use="optional" />-<xsd:attribute name="weight" type="xsd:integer" use="optional" />-</xsd:complexType> </xsd:schema> </xsd:all> 120~

100

<?xml version="1.0" ?>

FIG. 3A

300

<?xml version="1.0"?>

```
<xsd:attribute name="gender" type="xsd:string" use="optional" />
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
                                                                                                                                                                                                        <xsd:extension base="personType">---
                                                                < !-- This extension adds gender to a person.
                                                                                                                      <ssd:complexType name="personType">
                                                                                                                                                                                      <xsd:complexContent>
                                                                                                                                                                                                                                                    </xsd:extension>
                                                                                                                                                                                                                                   320
```

</xsd:complexContent>

</xsd:complexType>

</xsd:redefine> </xsd:schema>

340

<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"> FIG. 3B <!-- This extension adds age to a person. <?xml version="1.0"?> 330

d:exterision معدد المرابعة ال 351 <xsd:extension base="personType">--</xsd:complexContent> <xsd:complexContent> </xsd:extension> </xsd:complexType> </xsd:redefine> </xsd:schema> 350 ~

370 xsd:redefine schemaLocation="base.xsd">

<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"> FIG. 3C <!-- This extension adds marital status to a person <?xml version="1.0" ?> 360

d:extension base- person yes - xsd:string" use="optional" /> 383 381 <xsd:extension base="personType">---<<sd:complexType name="personType"> </xsd:complexContent> <xsd:complexContent> </xsd:extension> </xsd:complexType> </xsd:redefine> </xsd:schema> 380 ~

FIG. 4B

430

<address>123 Main Street</address>

<name>John</name>

height="72" weight="190" gender="M">

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="//www.myCompany.com/ext1.xsd"

<?xml version="1.0" encoding="UTF-8"?>

FIG. 4A

<?xml version="1.0" encoding="UTF-8"?>

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="//www.myCompany.com/ext2.xsd"

height="72" weight="190" age="35"> <name>John</name> <address>123 Main Street</address>

FIG. 4C

<?xml version="1.0" encoding="UTF-8"?>

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="//www.myCompany.com/ext3.xsd" height="72" weight="190" maritalStatus="Single">

<address>123 Main Street</address> <name>John</name>

6/12

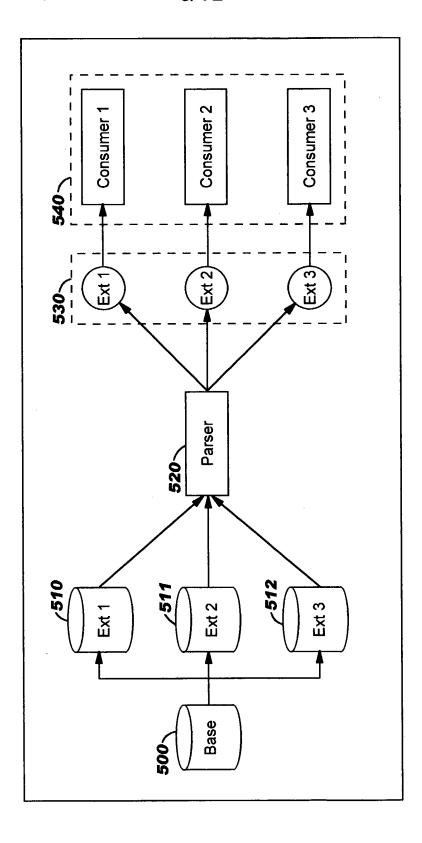


FIG. 5

```
<xsd:element name="address" type="xsd:string" minOccurs="1" maxOccurs="1" />
                                                                                                                                                                                                                                                                                                                                                                                          <xsd:element name="name" type="xsd:string" minOccurs="1" maxOccurs="1" />
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <xsd.attribute name="maritalStatus" type="xsd:string" use="optional" />
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <xsd:attribute name="height" type="xsd:integer" use="optional" />
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <xsd:attribute name="weight" type="xsd:integer" use="optional" />
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <xsd:attribute name="gender" type="xsd:string" use="optional" />
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <xsd.attribute name="age" type="xsd:integer" use="optional" />
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">
                                                                                                                                                                                                                                                                                                                       <xsd:complexType name="personType" mixed="false">
                                                                                                                                                                                                                                          <xsd:element name="person" type="person/Type"/>
                                                                                                                            <!- The root element defines a person.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    </xsd:complexType>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         </xsd:schema>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        </xsd:all>
```

FIG. 6

<?xml version="1.0" ?>

FIG. 7

700

9/12

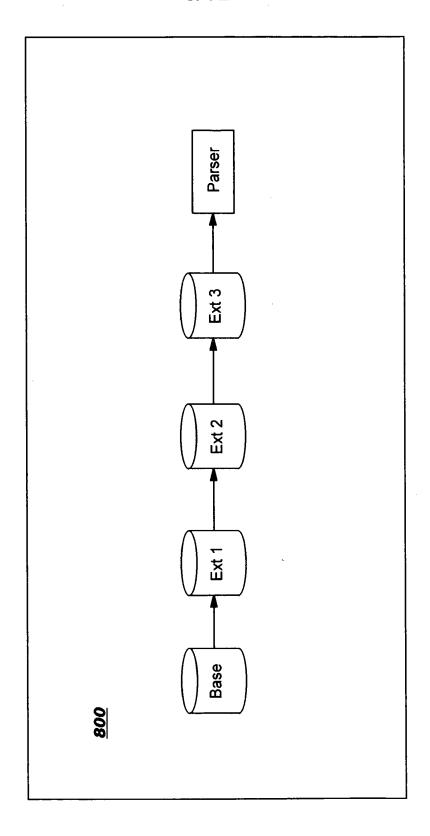
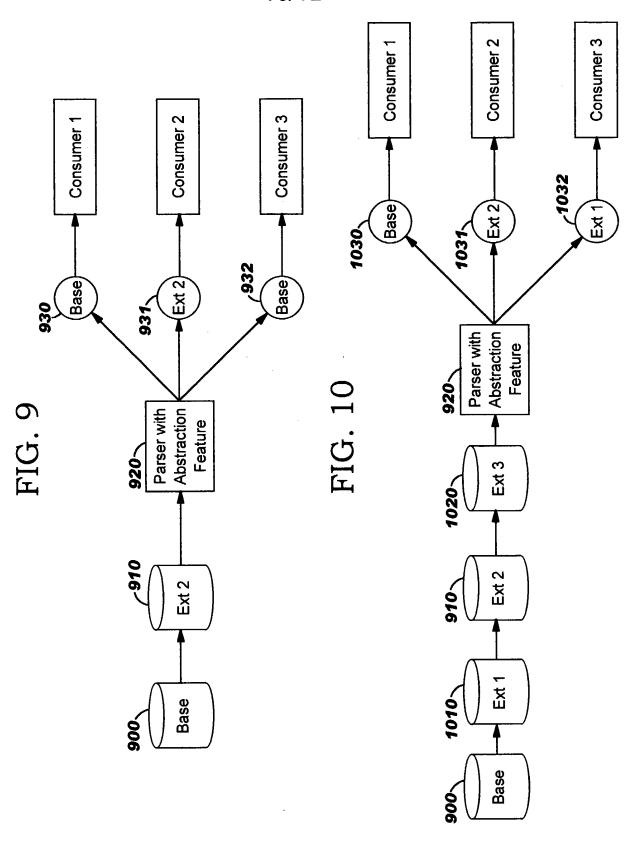


FIG. 8





. parser.setFeature("http://www.myCompany.com/xml/features/abstraction", "xmlns.base"); - parser.setFeature("http://apache.org/xml/features/validation/");

catch (Exception e)

1130-

1120-

System.out.println("The Feature is unknown"); // if feature isn't recognized, print a message

-parser.parse(...);

parser.setContentHandler(newContentHandler()); SAXParser parser = new SAXParser();

parser.setErrorHandler(errorHandler);

1100

12/12

